

6AQ5-A

BEAM POWER TUBE

7-PIN MINIATURE TYPE

With heater having controlled warm-up time

GENERAL DATA				
Electrical:				
Heater, for Unipotential Cathode: Voltage 6.3 Current 0.45 Warm-up time (Average) . 11 For definition of heater warm-up time and mei it, see sheet HEATER WARM-UP TIME MEASURI this Section.	thod of determi	ning		
Direct Interelectrode Capacitances (Approx Grid No.1 to plate	0.4 No.2,	β μμή		
Mechanical:				
Operating Position. Maximum Overall Length. Maximum Seated Length. Length, Base Seat to Bulb Top (Excluding ti Diameter. Dimensional Outline. Bulb. Base. Small-Button Miniature 7- Basing Designation for BOTTOM VIEW.	p) 2" . 0.650" to See General	2-3/8" ± 3/32" > 0.750" Section .T5-1/2		
Pin 1-Grid No.1 Pin 2-Cathode, Grid No.3 Pin 3-Heater	Pin 4 - Heat Pin 5 - Plat Pin 6 - Grid Pin 7 - Grid	e I No.2		
AMPLIFIER — Class A				
Maximum Ratings, Design-Center Values:				
PLATE VOLTAGE	200≜ max.	volts watts watts volts volts		
^O , [▲] : See next page.	←Indicates a	change.		

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Typical Operation and Characteristics:	
Plate Voltage 180 250 Grid-No.2 Voltage 180 250 Grid-No.1 (Control-Grid) Voltage -8.5 -12.5 Peak AF Grid-No.1 Voltage 8.5 12.5 Zero-Signal Plate Current 29 45 MaxSignal Plate Current 30 47 Zero-Signal Grid-No.2 Current 3 4.5 MaxSignal Grid-No.2 Current 4 7 Plate Resistance (Approx.) 58000 52000 Transconductance 3700 4100 Load Resistance 5500 5000 Total Harmonic Distortion 8 8 MaxSignal Power Output 2 4.5	volts volts volts volts ma ma ma ohms µmhos ohms watts
Maximum Circuit Values:	
Grid-No.1-Circuit Resistance: For fixed-bias operation 0.1 max. For cathode-bias operation 0.5 max.	megohm megohm
AMPLIFIER - Class AB	
Maximum Ratings, Design-Center Values:	
PLATE VOLTAGE	volts watts watts volts volts
on bulb surface)	°C
Typical Push-Pull Operation:	
Unless otherwise specified, values are for 2 tub	
Plate Voltage	volts volts volts volts ma ma ma ma ohms
Total Harmonic Distortion	watts
O,▲,●: See next page.	
	DATA



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	Maximum Circuit Values:				
	Grid-No.1-Circuit Resistance:				
	For fixed-bias operation 0.1 max. megohr				
	For cathode-bias operation 0.5 max. megohr	^η			
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	VERTICAL-DEFLECTION AMPLIFIER	1			
	Triode Connection †				
	Maximum Ratings, Design-Center Values Except as Noted:				
	For operation in a 525-line, 30-frame system				
_	DC PLATE VOLTAGE	S			
	(Absolute maximum)	ŝ			
	(CONTROL-GRID) VOLTAGE 250 max. volt:	s			
	PEAK CATHODE CURRENT 105 max. max.	a			
	DC CATHODE CURRENT	а			
	PLATE DISSIPATION 9 max. watt: PEAK HEATER-CATHODE VOLTAGE:	5			
	Heater negative with respect to cathode . 200 max. volt	s			
	Heater positive with respect to cathode . 200 max. volt	S			
	BULB TEMPERATURE (At hottest point on bulb surface) 250 max. O	_			
	Characteristics:				
	Plate Voltage 250 volt	- !			
	Grid-No.1 Voltage12.5 volt	s			
	Amplification Factor 9.5				
	Plate Resistance (Approx.) 1970 ohm	- 1			
	Transconductance				
	Plate Current	٦			
	plate ma. = 0.537 volt:	s			
	Maximum Circuit Values:				
	Grid-No.1-Circuit Resistance: For cathode-bias operation 2.2 max. megohm				
		٦			
_	O Without external shield.				
	The dc component must not exceed 100 volts.				
	The type of input coupling used should not introduce too much resistance in the grid-No.1 circuit. Transformer- or impedance-coupling devices are recommended.				
	Grid-No.2 (Screen-grid) connected to plate.				
	As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.				
,	This rating is applicable where the duration of the voltage pulse doe not exceed 15 per cent of one vertical scanning cycle. In a 525-line 30-frame system, 15 per cent of one vertical scanning cycle is 2. milliseconds.	,			
	Under no circumstances should this absolute value be exceeded.				

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CURVES
For the 6AQ5-A, within its ratings, are the same as those shown for Type 6V6